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Asymmetrical camera systems, which are adapted to utilize a greater proportion of the image data from each camera as compared to symmetrical camera systems, are disclosed. Specifically, an outward facing camera system in accordance with one embodiment of the present invention includes a plurality of equatorial cameras distributed evenly about an origin point in a plane. The outward facing camera system also includes a first plurality of polar cameras tilted above the plane. Furthermore, some embodiments of the present invention include a second plurality of polar cameras tilted below the plane. The equatorial cameras and polar cameras are configured to capture an complete coverage of an environment.